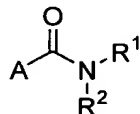


WHAT IS CLAIMED IS

1. A composition for modulation of LXR function in a cell, said composition comprising a pharmaceutically acceptable excipient and a compound having the formula:



or a pharmaceutically acceptable salt thereof, wherein

A is a member selected from the group consisting of (C₅-C₁₈)alkyl and (C₅-C₁₈)heteroalkyl;

R¹ is a member selected from the group consisting of (C₃-C₁₂)alkyl, aryl, aryl(C₁-C₈)alkyl, aryl(C₂-C₈)heteroalkyl, (C₃-C₁₂)heteroalkyl, heteroaryl, heteroaryl(C₁-C₈)alkyl and heteroaryl(C₂-C₈)heteroalkyl; and

R² is a member selected from the group consisting of aryl, heteroaryl, aryl(C₁-C₈)alkyl, heteroaryl(C₁-C₈)alkyl, aryl(C₂-C₈)heteroalkyl and heteroaryl(C₂-C₈)heteroalkyl;

wherein R¹ and R² are optionally combined together with the nitrogen atom to which each is attached to form a 5-, 6-, 7- or 8-membered ring, and said compound binds to the ligand binding domain of LXRα with an affinity of at least 1 micromolar.

2. A composition in accordance with claim 1, wherein A is selected from the group consisting of (C₅-C₁₈)cycloalkyl and (C₅-C₁₈)heterocycloalkyl.

3. A composition in accordance with claim 1, wherein A is selected from the group consisting of (C₈-C₁₈)bicycloalkyl, (C₈-C₁₈)tricycloalkyl, (C₈-C₁₈)heterobicycloalkyl and (C₈-C₁₈)heterotricycloalkyl.

4. A composition in accordance with claim 1, wherein A is adamantyl.

5. A composition in accordance with claim 3, wherein R¹ is selected from aryl(C₁-C₈)alkyl and heteroaryl(C₁-C₈)alkyl.

6. A composition in accordance with claim 3, wherein R² is selected from aryl and heteroaryl.

7. A composition in accordance with claim 1, wherein A is adamantyl, R¹ is selected from aryl(C₁-C₈)alkyl and heteroaryl(C₁-C₈)alkyl and R² is selected from aryl and heteroaryl.

8. A composition in accordance with claim 1, wherein A is adamantyl, R¹ is selected from heteroaryl(C₃-C₈)alkenyl and R² is selected from phenyl and pyridyl.

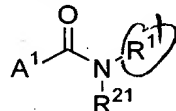
9. A composition in accordance with claim 1, wherein A is adamantyl, R¹ is selected from branched (C₃-C₈)alkyl and R² is selected from phenyl and pyridyl.

10. A composition in accordance with claim 1, wherein A is adamantyl, R¹ is heteroaryl(branched C₂-C₈)alkyl and R² is selected from aryl and heteroaryl.

11. A composition in accordance with claim 1, wherein A is adamantyl, R¹ is 1-(heteroaryl)-(C₂-C₈)alkyl and R² is selected from aryl and heteroaryl.

12. A composition in accordance with claim 1, wherein A is 1-adamantyl, R¹ is selected from aryl(C₁-C₈)alkyl and heteroaryl(C₁-C₈)alkyl, and R² is selected from pyridyl, phenyl, pyrazinyl, pyrimidinyl, pyridazinyl, thienyl, thiazolyl and furanyl.

13. A compound having the formula:



or a pharmaceutically acceptable salt thereof, wherein

A¹ is a member selected from the group consisting of (C₅-C₁₂)monocycloalkyl, (C₅-C₁₂)heteromonocycloalkyl, (C₈-C₁₈)bicycloalkyl, (C₈-C₁₈)tricycloalkyl, (C₈-C₁₈)heterobicycloalkyl and (C₈-C₁₈)heterotricycloalkyl;

R¹¹ is a member selected from the group consisting of (C₃-C₁₂)alkyl, aryl, aryl(C₁-C₈)alkyl, aryl(C₂-C₈)heteroalkyl, (C₃-C₁₂)heteroalkyl, heteroaryl, heteroaryl(C₁-C₈)alkyl and heteroaryl(C₂-C₈)heteroalkyl; and

R²¹ is a member selected from the group consisting of aryl, heteroaryl, aryl(C₁-C₈)alkyl, heteroaryl(C₁-C₈)alkyl, aryl(C₂-C₈)heteroalkyl and heteroaryl(C₂-C₈)heteroalkyl;

and wherein R¹¹ and R²¹ can be combined with the nitrogen atom to which each is attached to form a five- to eight-membered ring, with the following provisos:

when R²¹ is 2-pyridyl, R¹¹ is other than a substituted or unsubstituted 2-(1-piperazinyl)ethyl or (tetrahydro-2H-pyrido[3,4-b]indol-2-yl)ethyl group;

other than

when R²¹ is substituted or unsubstituted phenyl, R¹¹ and R²¹ are not combined to form a ring with the attached nitrogen atom; and
 when R²¹ is substituted or unsubstituted phenyl, R¹¹ is not allyl, 2-(acylamino)ethyl, or benzyloxycarbonyl.

14. A compound in accordance with claim 13, wherein A¹ is selected from the group consisting of (C₈-C₁₈)bicycloalkyl, (C₈-C₁₈)tricycloalkyl, (C₈-C₁₈)heterobicycloalkyl and (C₈-C₁₈)heterotricycloalkyl.

15. A compound in accordance with claim 13, wherein A¹ is adamantyl.

16. A compound in accordance with claim 13, wherein R¹¹ is selected from aryl(C₁-C₈)alkyl and heteroaryl(C₁-C₈)alkyl.

17. A compound in accordance with claim 13, wherein R²¹ is selected from aryl and heteroaryl.

18. A compound in accordance with claim 13, wherein A¹ is adamantyl, R¹¹ is selected from aryl(C₁-C₈)alkyl and heteroaryl(C₁-C₈)alkyl and R²¹ is selected from aryl and heteroaryl.

19. A compound in accordance with claim 13, wherein A¹ is adamantyl, R¹¹ is selected from heteroaryl(C₃-C₈)alkenyl and R²¹ is selected from phenyl and pyridyl.

20. A compound in accordance with claim 13, wherein A¹ is adamantyl, R¹¹ is selected from branched (C₃-C₈)alkyl and R²¹ is selected from phenyl and pyridyl.

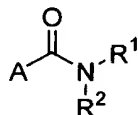
21. A compound in accordance with claim 13, wherein A¹ is adamantyl, R¹¹ is heteroaryl(branched C₂-C₈)alkyl and R²¹ is selected from aryl and heteroaryl.

22. A compound in accordance with claim 13, wherein A¹ is adamantyl, R¹¹ is 1-(heteroaryl)-(C₂-C₈)alkyl and R²¹ is selected from aryl and heteroaryl.

23. A compound in accordance with claim 13, wherein A¹ is 1-adamantyl, R¹¹ is selected from aryl(C₁-C₈)alkyl and heteroaryl(C₁-C₈)alkyl, and R²¹ is selected from pyridyl, phenyl, pyrazinyl, pyrimidinyl, pyridazinyl, thienyl, thiazolyl and furanyl.

24. A method for modulation of LXR in a cell, said method comprising administering to said cell a composition in accordance with claim 1.

1 **25.** A method for the treatment of LXR-responsive diseases, comprising
 2 administering to a subject in need of said treatment, a compound having the
 3 formula:



4
 5 or a pharmaceutically acceptable salt thereof, wherein

6 A is a member selected from the group consisting of (C₅-C₁₈)alkyl
 7 and (C₅-C₁₈)heteroalkyl;

8 R¹ is a member selected from the group consisting of (C₃-C₁₂)alkyl, aryl,
 9 aryl(C₁-C₈)alkyl, aryl(C₂-C₈)heteroalkyl, (C₃-C₁₂)heteroalkyl,
 10 heteroaryl, heteroaryl(C₁-C₈)alkyl and heteroaryl(C₂-C₈)heteroalkyl;
 11 and

12 R² is a member selected from the group consisting of aryl, heteroaryl,
 13 aryl(C₁-C₈)alkyl, heteroaryl(C₁-C₈)alkyl, aryl(C₂-C₈)heteroalkyl and
 14 heteroaryl(C₂-C₈)heteroalkyl;

15 wherein R¹ and R² are optionally combined together with the nitrogen atom to
 16 which each is attached to form a 5-, 6-, 7- or 8-membered ring, and said compound
 17 binds to the ligand binding domain of LXRA with an affinity of at least 1 micromolar.

1 **26.** A method in accordance with claim **25**, wherein said disease is selected
 2 from the group consisting of hypercholesterolemia and atherosclerosis or other
 3 disorders associated with bile acid and cholesterol metabolism.

1 **27.** A method in accordance with claim **25**, wherein said compound is
 2 administered in conjunction with an additional hypercholesterolemic agent selected
 3 from the group consisting of bile acid sequestrants, nicotinic acid, fibric acid
 4 derivatives and HMG CoA reductase inhibitors.